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Name

Yi-Hung Chen

Current Positions

Professor, Graduate Institute of Acupuncture Science, China Medical University, Taichung, Taiwan
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Education

Ph.D. 1998 Institute of Pharmacology, National Taiwan University, Taipei, Taiwan

M.s. 1994 Institute of Pharmacology, National Taiwan University, Taipei, Taiwan

B.s. 1992 School of Pharmacy, National Taiwan University, Taipei, Taiwan

Expertise

Pain animal model, Parkinson's disease animal model, Traumatic brain injury animal model, Itching animal model, Addiction animal model, Acupuncture research

Research Interests

Dr. Yi-Hung Chen is a Professor and Associate Dean at the Graduate Institute of Acupuncture Science, College of Chinese Medicine, China Medical University in Taichung, Taiwan. Dr. Chen obtained his Ph.D. from the College of Medicine at National Taiwan University. He has ever been serving as the Visiting Scholar at the Department of Pharmacology, Temple University School of Medicine, Philadelphia, U.S.A. Nowadays, Dr. Chen focused his research on the effects of acupuncture relating to analgesia and neuroprotection. His recent study concerns the non-opioid acupuncture analgesia mechanisms, which was published in Proceedings of the National Academy of Sciences of the United States in 2018. He received the award of the Outstanding Professor of China Medical University 2019.

Selected Grants:

Clinical efficacy and mechanism of acupuncture on neurodegenerative diseases (2019)

Development of a novel topical neuroprotective agent (2018-2021)

The mechanism of electroacupuncture-induced neuroprotection: traumatic brain injury as an example (2019-2021)

Selected Publications

1. Yang CT, Hung SY, Hsu SF, MacDonald I, Lin JG, Luo ST, Lin PL*, **Chen YH*** (2019). Inhibiting the LPS-induced enhancement of mEPSC frequency in superficial dorsal horn neurons may serve as an electrophysiological model for alleviating pain. *Sci Rep.* **9**: 16032.
2. Tu CH, MacDonald I and **Chen YH*** (2019) The effects of acupuncture on glutamatergic neurotransmission in depression, anxiety, schizophrenia, and Alzheimer's disease: A review of the literature. *Front. Psychiatry* 10:14.
3. **Chen YH**, Lee HJ, Lee MT, Wu YT, Lee YH, Hwang LL, Hung MS, Zimmer A, Mackie K, Chiou LC* (2018) Median nerve stimulation induces analgesia via orexin-initiated endocannabinoid disinhibition in the

- periaqueductal gray. *Proc Natl Acad Sci U S A* 115(45):E10720-E10729.
4. Lai CY, JH Chiang, JG Lin, HR Yen, Tu CH*, **Chen YH*** (2018). Chinese herbal medicine reduced the risk of stroke in patients with Parkinson's disease: A population-based retrospective cohort study from Taiwan. *PLoS One* 13(9): e0203473.
 5. Lee YC, Lin CH, Hung SY, Chung HY, Luo ST, MacDonald I, Chu YT, Lin PL*, **Chen YH*** (2018). Manual acupuncture relieves bile acid-induced itch in mice: the role of microglia and TNF- α . *Int. J. Med. Sci.* 15(9): 953-960.
 6. Yang CT, Lu GL, Hsu SF, MacDonald I, Chiou LC, Hung SY*, **Chen YH*** (2018). Paeonol promotes hippocampal synaptic transmission: The role of the Kv2.1 potassium channel. *Eur. J. Pharmacol.* 827:227-237.
 7. Lin JG, Lee YC, Tu CH, MacDonald I, Chung HS, Luo ST, Hung SH*, **Chen YH*** (2018) Histamine H1 receptor antagonists facilitate electroacupuncture analgesia. *Am. J. Chinese Med.* 46: 1-13
 8. Chavez Lina M, Huang SS, MacDonald I, Lin JG, Lee YC*, and **Chen YH*** (2017). Mechanisms of acupuncture therapy in ischemic stroke rehabilitation: A literature review of basic studies. *Int. J. Mol. Sci.* 2017, 18, 2270.
 9. Lin JG, Chen CJ, Yang HB, **Chen YH***, Hung SH* (2017). Electroacupuncture promotes recovery of motor function and reduces dopaminergic neuron degeneration in rodent models of Parkinson's disease. *Int. J. Mol. Sci.* 2017, 18, 1846.
 10. Lin JG, Lee YC, Tseng CH, Chen DY, Shih CY, MacDonald I, Hung SY*, **Chen YH*** (2016). Electroacupuncture inhibits pruritogen-induced spinal microglial activation in mice. *Brain Res.* 1649:23-29.